

Claims

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1. A thermoforming mold having a surface roughness (Ra) of not more than $0.1\mu\text{m}$.
2. A thermoformed article comprising a crystalline olefin resin, which article has a surface roughness (Ra) of not more than $3\mu\text{m}$.
3. The thermoformed article according to Claim 2, wherein the olefin resin contains a propylene homopolymer.
4. The thermoformed article according to Claim 2, wherein the olefin resin contains a propylene homopolymer having an α pentad % of not less than 0.95.
5. The thermoformed article according to Claim 2, wherein the thermoformed article is a sheet having a thickness of from 50 to $700\mu\text{m}$.
6. The thermoformed article according to Claim 2, wherein the thermoformed article has a total haze of not more than 5% and an inner haze of not more than 3%.
7. A process for producing a thermoformed article, which comprises the steps of:
- (i) heating and softening a crystalline olefin resin to obtain a sheet thereof; and

(ii) thermoforming the sheet with a thermoforming mold having a surface roughness (Ra) of not more than $0.1\mu\text{m}$ to obtain a thermoformed article having a surface roughness (Ra) of not more than $3\mu\text{m}$.

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8. The process for producing a thermoformed article according to Claim 7, wherein the olefin resin contains a propylene homopolymer.

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9. The process for producing a thermoformed article according to Claim 7, wherein the olefin resin contains a propylene homopolymer having an mmmmm pentad % of not less than 0.95.

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10. The process for producing a thermoformed article according to Claim 7, wherein the thermoformed article is a sheet having a thickness of from 50 to $700\mu\text{m}$.

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11. The process for producing a thermoformed article according to Claim 7, wherein the thermoformed article has a total haze of not more than 5% and an inner haze of not more than 3%.

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12. A laminated molding article, which comprises:

(i) a thermoformed article containing a crystalline olefin resin, and having a surface roughness (Ra) of not more than $3\mu\text{m}$; and

(ii) a substrate containing a crystalline olefin resin.

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13. The laminated molding article according to Claim 12, wherein the olefin resin contains a propylene homopolymer.
- 5 14. The laminated molding article according to Claim 12, wherein the olefin resin contains a propylene homopolymer having an ~~mmmm~~ pentad % of not less than 0.95.
- 10 15. The laminated molding article according to Claim 12, wherein the thermoformed article is a sheet having a thickness of from 50 to 700 μm .
- 15 16. The laminated molding article according to Claim 12, wherein the thermoformed article has a total haze of not more than 5% and an inner haze of not more than 3%.
17. The laminated molding article according to Claim 12, wherein the laminated molding article is a car part.
- 20 18. The laminated molding article according to Claim 12, wherein the laminated molding article is a center cluster.
19. A process for producing a laminated molding article, which comprises the steps of:
- 25 (i) heating and softening a crystalline olefin resin to obtain a sheet thereof;
- (ii) thermoforming the sheet with a thermoforming mold having a surface roughness (Ra) of not more than 0.1 μm to

obtain a thermoformed article having a surface roughness (Ra) of not more than $3\mu\text{m}$;

(iii) setting the thermoformed article on a cavity side of a mold; and

5 (iv) injecting a molten crystalline olefin resin into the mold to obtain a laminated molding article, which contains the injected resin as a substrate and the thermoformed article bonded with the substrate.

10 20. The process for producing a laminated molding article according to Claim 19, wherein the olefin resin contains a propylene homopolymer.

15 21. The process for producing a laminated molding article according to Claim 19, wherein the olefin resin contains a propylene homopolymer having an ~~mmmm~~ pentad % of not less than 0.95.

20 22. The process for producing a laminated molding article according to Claim 19, wherein the thermoformed article is a sheet having a thickness of from 50 to $700\mu\text{m}$.

25 23. The process for producing a laminated molding article according to Claim 19, wherein the thermoformed article has a total haze of not more than 5% and an inner haze of not more than 3%.

24. The process for producing a laminated molding article

according to Claim 19, wherein the laminated molding article
is a car part.

25. The process for producing a laminated molding article
5 according to Claim 19, wherein the laminated molding article
is a center cluster.

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